



# PRODUCT DATA SHEET

## THERMOGUARD TYPE HWTG

### THE FROST DAMAGE PROTECTION THAT SOLVES MANY PROBLEMS

Heating coils with ThermoGuard are the best choice for all installations, but are especially suitable for setups where you want to work with low return water temperatures, and in properties where the problem of water leaking from frost-damaged coils must quite simply never be allowed to arise.

We can help you find the right combination of geometries, lamellas, and materials that optimize the results for your operating case.

A good choice of coils always starts with a good dialogue. We listen attentively and present solutions that match both your requirements and those made by the authorities. With over fifty years of experience, we identify coils with the right quality, lifespan, and cost-effectiveness.

#### BENEFITS

- A simpler control system free from the risk of unreliable regulation and problems with frost damage.
- The opportunity to operate with a lower return temperature, which is positive when you are using district heating.
- Elimination of issues with false frost sensor alarms.
- Simple function, irrespective of power supply.



#### CALCULATE COILS YOURSELF

Use AC MasterSelection, which is our proprietary calculation program.

Register as a user  
[aircoil.se/en/calculation-program](http://aircoil.se/en/calculation-program)



# THERMOGUARD HWTG

AIRCOIL HEATING COIL WITH THERMOGUARD  
FROST PROTECTION TYPE HWTG USED FOR HEATING AIR

For installing in ducts with a guide or flange  
connection, or for embedding in a unit.

Standard configuration with copper tubes, aluminium fins  
and hot galvanised sheet steel casing.

Many other material variations are available and  
manufactured according to needs and preferences.



## THE COILS ARE AVAILABLE IN THREE VERSIONS



**TYPE B**

Covered ends with capped and insulated  
headers and tube bends outside the  
connection dimensions.

The headers have plugged outlets for  
aeration and discharge (1/8"). Connections  
on the fluid side have external pipe threads  
up to and including DN 80.

The connection dimensions are stated in  
the technical calculation. A safety valve,  
9 Bar, with DN 15 connection is fitted to the  
return header.

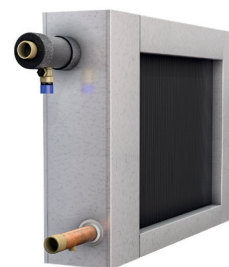
The coils are labelled to indicate the inflow  
and outflow, respectively, on the fluid side,  
as well as the air direction. The coils are  
supplied as standard for vertical installation  
- horizontal airflow. In addition to this, the  
coils are supplied labelled in accordance  
with the AMA VVS & KYL 16 standard.

The B and C models can all be equipped with  
either a Guide (G) or Flange (F).



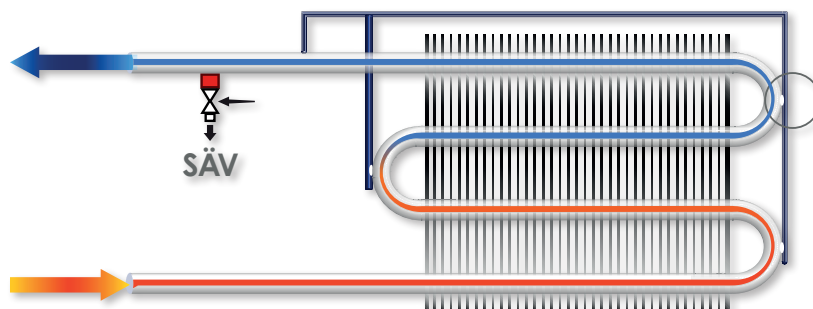
**TYPE C**

Covered ends with capped and insulated  
headers and tube bends inside the  
connection dimensions.



**TYPE IC**

Inside the unit, adapted with millimetre precision  
to the interior width and height. Covered ends  
with capped and insulated headers and tube  
bends inside the installation dimensions.



When the ice expands, the confined water in the pipe bend is relieved of pressure  
via the ThermoGuard tube to the heating circuit

### CONSTRUCTION DATA

MAX WORKING PRESSURE	6 BAR
MAX WORKING TEMPERATURE	100°C
TYP B & C	TIGHTNESS CLASS C